

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
3 November 2005 (03.11.2005)

PCT

(10) International Publication Number
WO 2005/103699 A1

(51) International Patent Classification⁷: **G01N 33/543**,
B01L 3/00

(21) International Application Number:
PCT/EP2005/004230

(22) International Filing Date: 20 April 2005 (20.04.2005)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
04447101.9 21 April 2004 (21.04.2004) EP

(71) Applicant (*for all designated States except US*): **PAM-
GENE B.V.** [NL/NL]; Nieuwstraat 30, NL-5211 NL
's-Hertogenbosch (NL).

(72) Inventor; and

(75) Inventor/Applicant (*for US only*): **INGHAM, Colin,
John** [GB/NL]; Brakelseweg 46, NL-6707 DW Wagenin-
gen (NL).

(74) Agents: **DE CLERCQ, Ann** et al.; De Clercq, Brants &
Partners CV, E. Gevaertdreef 10A, B-9830 Sint-Martens-
Latem (BE).

(81) Designated States (*unless otherwise indicated, for every
kind of national protection available*): AE, AG, AL, AM,
AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,
GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE,
KG, KM, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA,
MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM,
PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY,
TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU,
ZA, ZM, ZW.

(84) Designated States (*unless otherwise indicated, for every
kind of regional protection available*): ARIPO (BW, GH,
GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM,
ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),
European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI,
FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO,
SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN,
GQ, GW, ML, MR, NE, SN, TD, TG).

Declaration under Rule 4.17:

— *of inventorship (Rule 4.17(iv)) for US only*

Published:

— *with international search report*

*For two-letter codes and other abbreviations, refer to the "Guid-
ance Notes on Codes and Abbreviations" appearing at the begin-
ning of each regular issue of the PCT Gazette.*

(54) Title: MASKED SOLID SUPPORTS

(57) **Abstract:** The present invention relates to methods for the manufacture of a masked solid support suitable for array analysis comprising the steps of: (i) providing a solid porous support suitable for array analysis having first and second surfaces, said solid porous support having channels extending from said first surface to said second surface; (ii) depositing at a predefined area on said porous solid support a polymeric material to said first surface, said polymeric material comprising a co-solvent so as to temporarily decrease the viscosity and/or rate of polymerisation of the polymeric material during the step of depositing; (iii) allowing said polymeric material to enter said channels of said solid porous support; (iv) removing said co-solvent by contacting said first surface with a wash solution and extracting the co-solvent/wash solution through said channels so as to restore the polymerisation rate of the polymer material within said channels, whereby a mask on said solid support is formed. The present invention further relates to solid supports manufactured by said methods and uses thereof.



WO 2005/103699 A1